

1 / 10

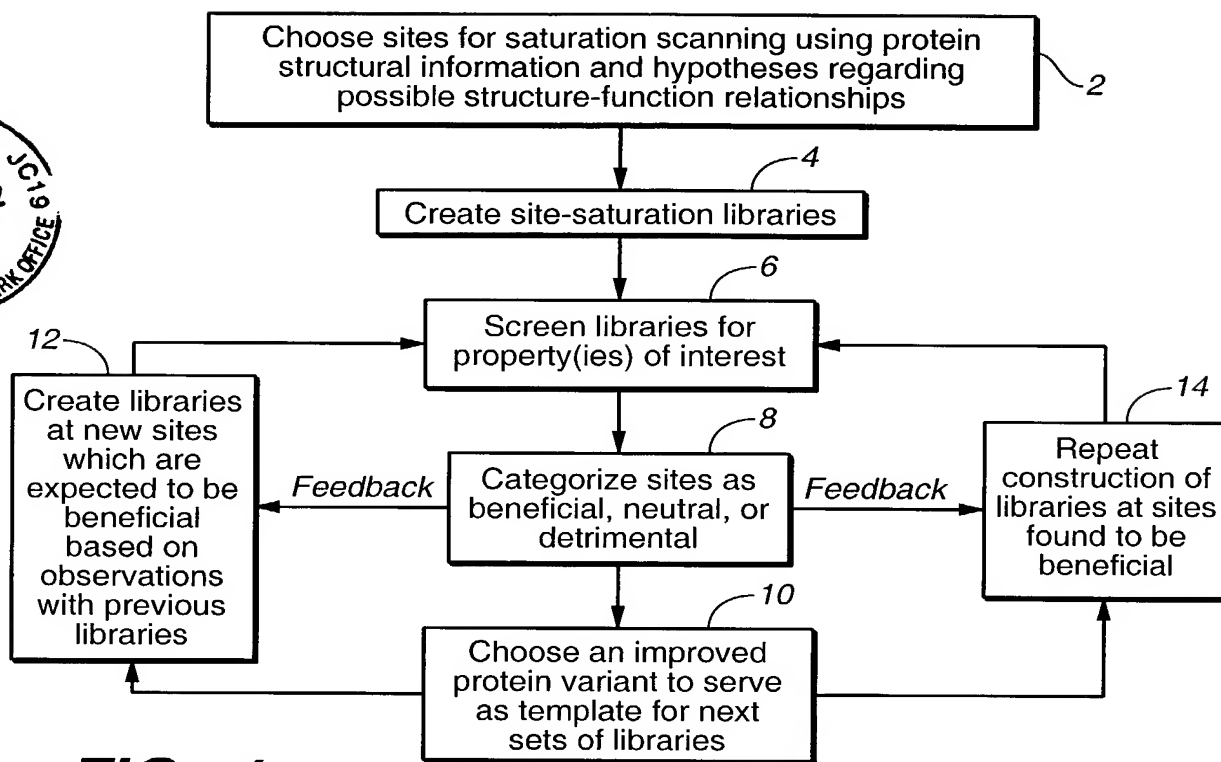


FIG. 1

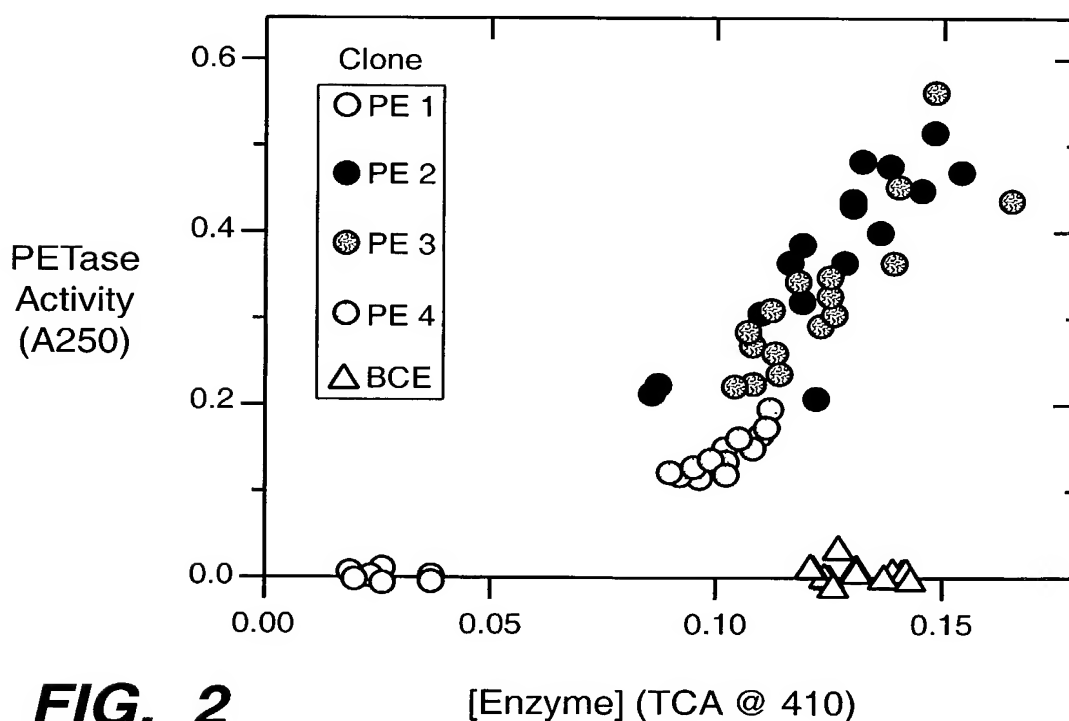


FIG. 2

2 / 10



PETase
Activity

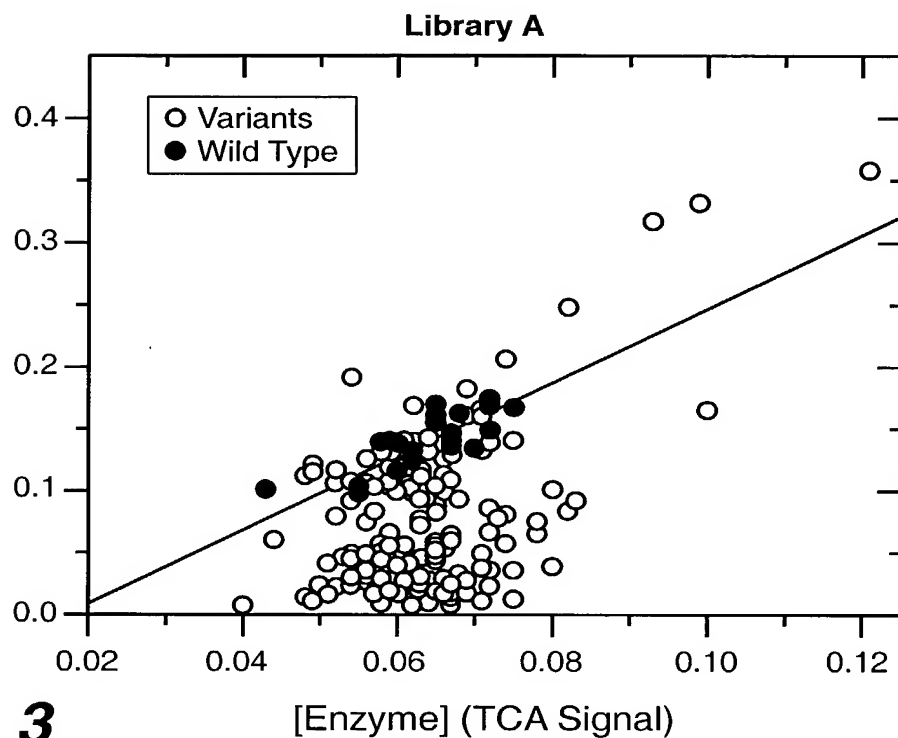


FIG._3

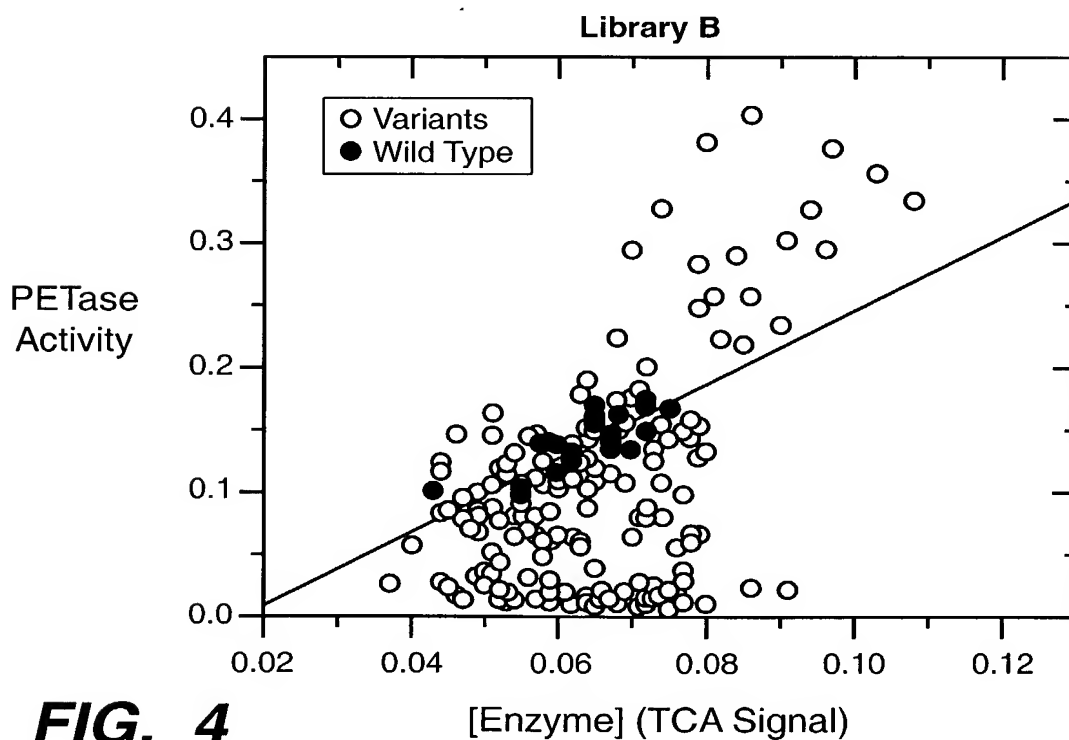


FIG._4

3 / 10



Fraction
Activity
After Stress

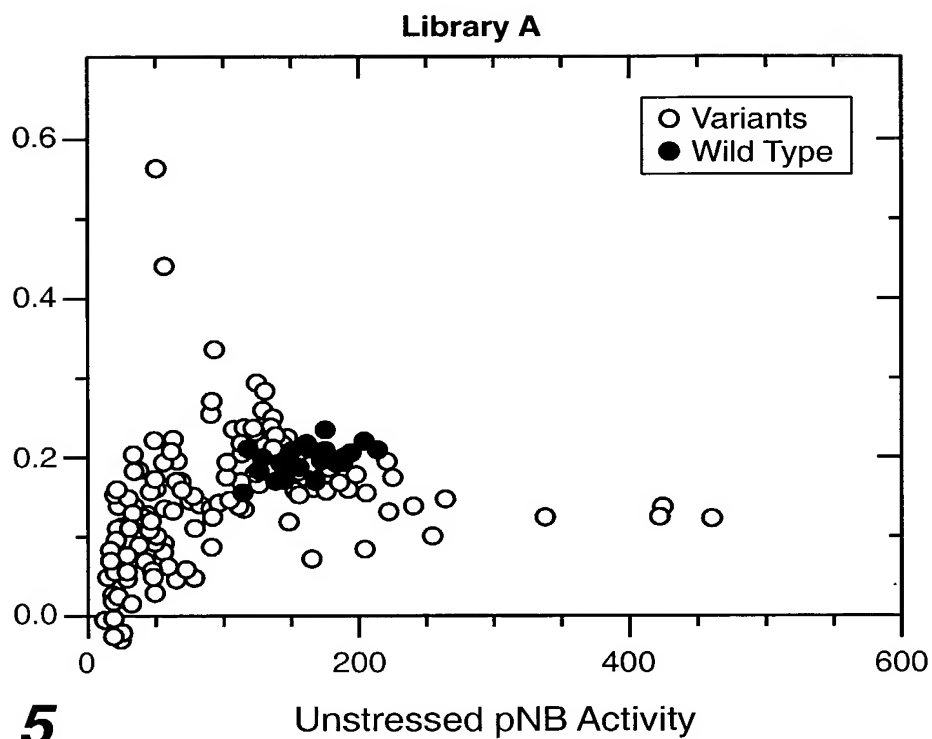


FIG._5

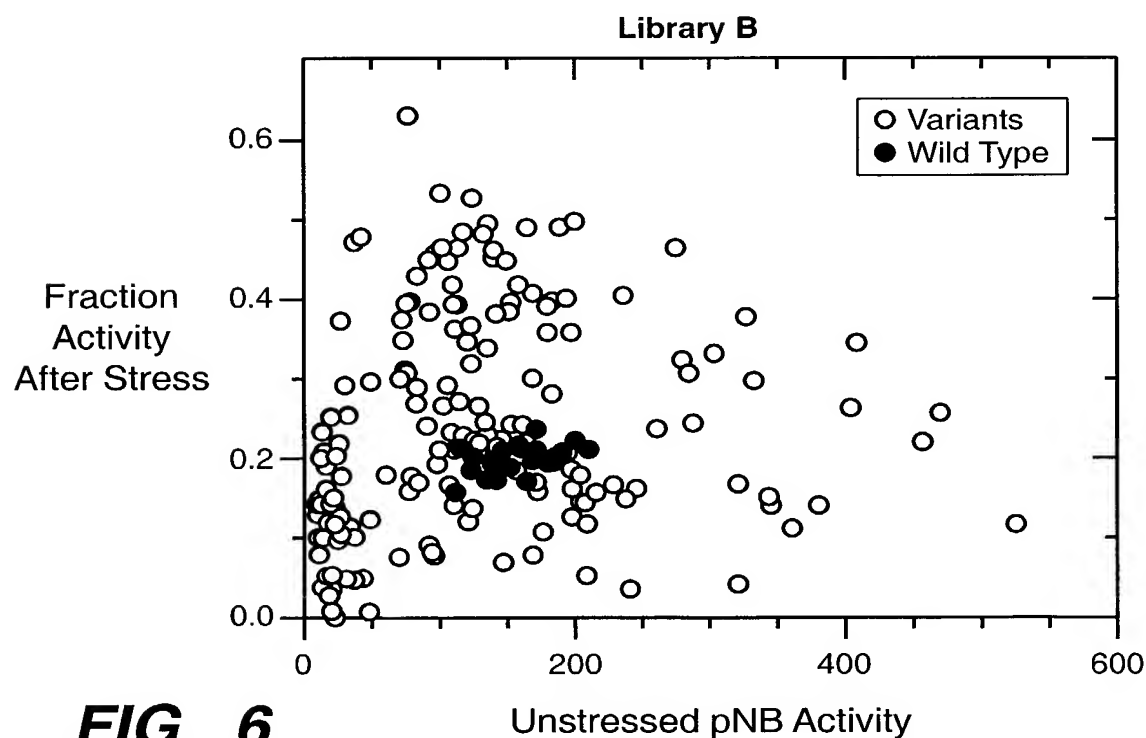


FIG._6

Sheet 4 of 10

4 / 10



FIG. 7

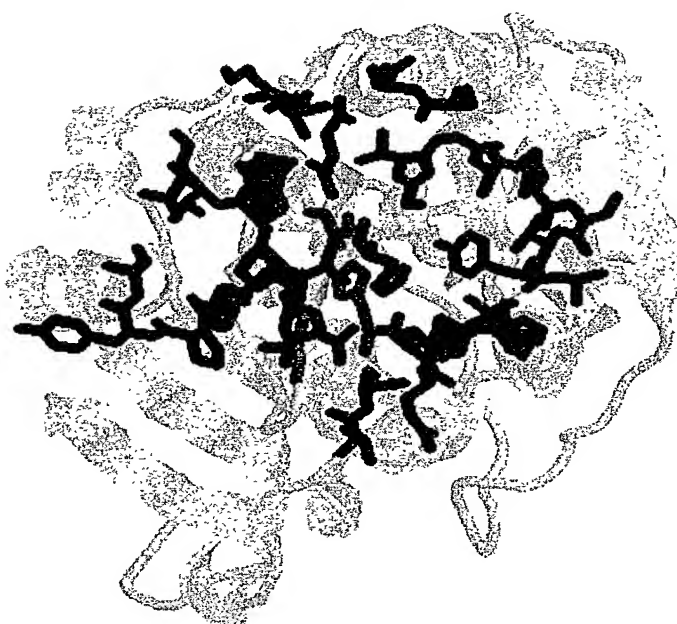


FIG. 8

Sheet 5 of 10

5 / 10



7 U.S. PTO
7/30/02

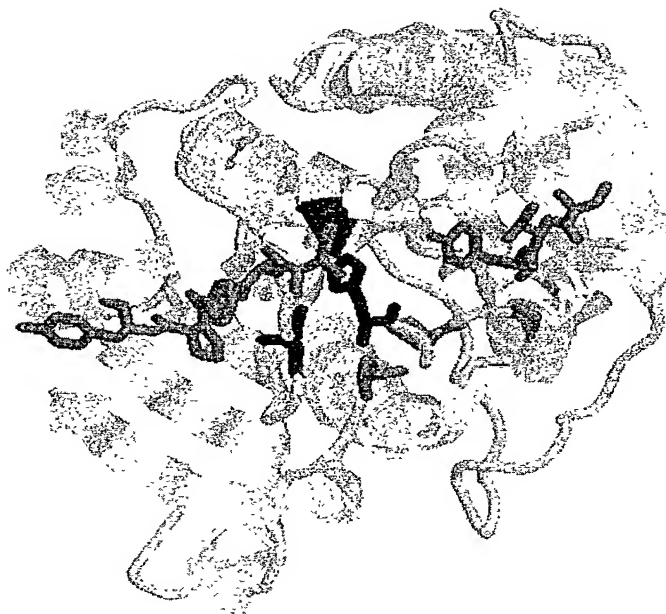


FIG._9



FIG._10

Sheet 6 of 10

6 / 10

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07/30/02



FIG._11



FIG._12

Sheet 7 of 10

7 / 10

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07/30/02

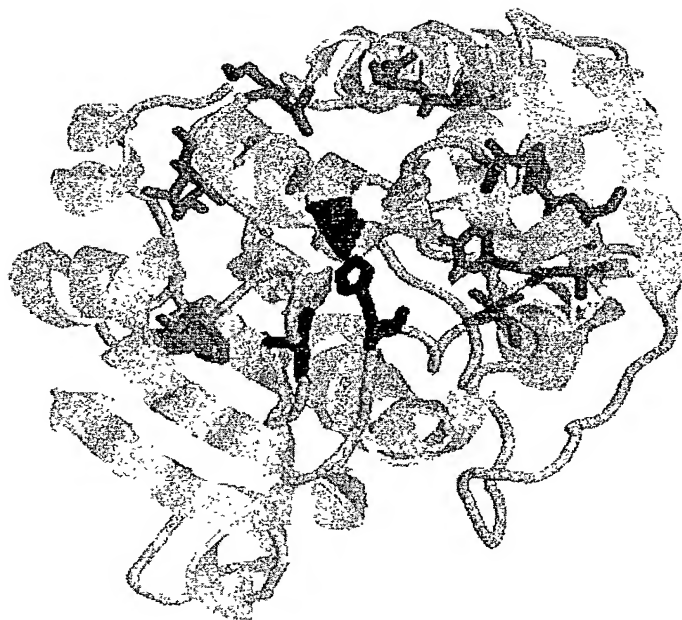


FIG._13



FIG._14



Release of
Soluble
Polyester
Fragments

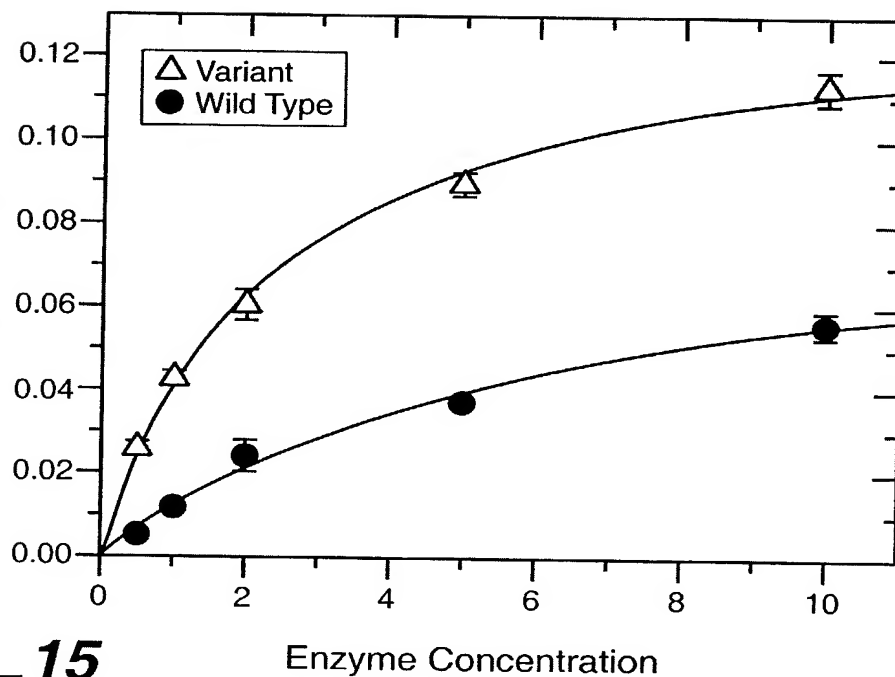


FIG._15

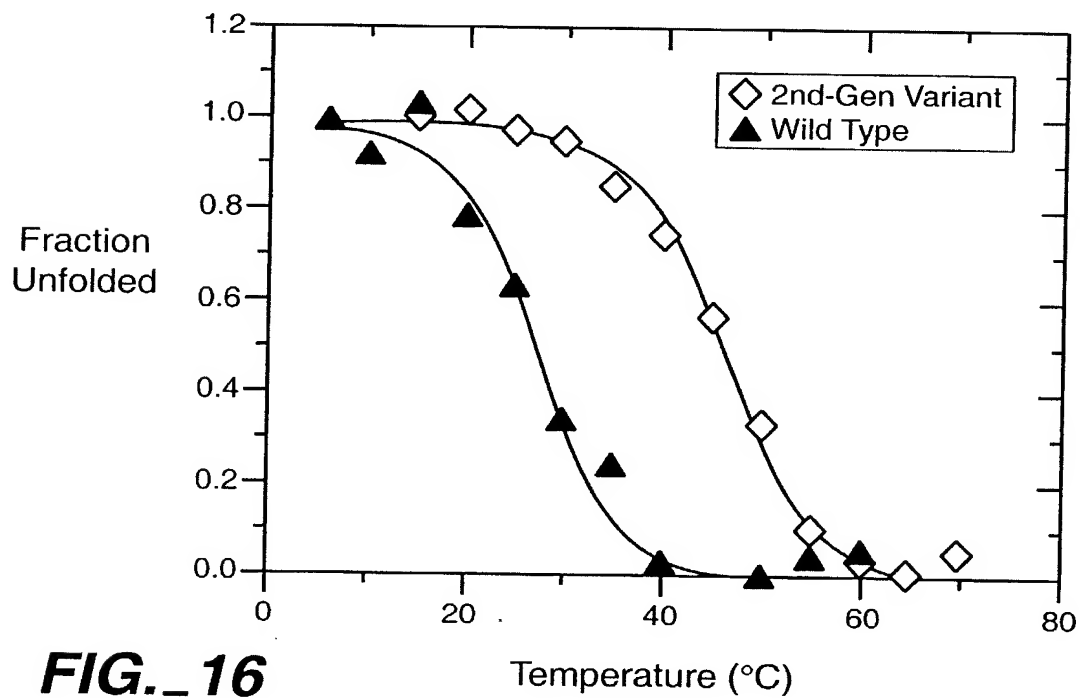


FIG._16



TGGCGGCCTCTTGCCCTGTCCGTCTGTGCCACTGTCGCGGC	40
GGCTCCCCCTGCCGGATACACCGGGAGCGCCATTTCCGGCT	80
GTCGCCAATTTTCGACCGCAGTGGCCCCCTACACCACCAGCA	120
GCCAGAGCGAGGGGGCCGAGCTGTGCGCATCTATCGGCCCCG	160
CGACCTGGGTCAGGGGGGCGTGCCTCATCCGGTGATTCTC	200
TGGGGCAATGGCACCCGGTGCCGGGCGCTCCACCTATGCCG	240
GCTTGCTATCGCACTGGGCAAGCCACGGTTTCGTGGTGCC	280
GGCGGCGGAAACCTCCAATGCCGGTACCGGGCGGGAAATG	320
CTCGCCTGCCTGGACTATCTGGTACGTGAGAACGACACCC	360
CCTACGGCACCTATTCCGGCAAGCTCAATACCGGGCGAGT	400
CGGCACTTCTGGGCATTCCCAGGGTGGTGGCGGCTCGATC	440
ATGGCCGGGCAGGATACGAGGGTGCGTACCACGGCGCCGA	480
TCCAGCCCTACACCCTCGGCCTGGGGCACGACAGCGCCTC	520
GCAGCGGCGGCAGCAGGGGCGGATGTTCCCTGATGTCCGGT	560
GGCGGTGACACCATCGCCTTTCCCTACCTCAACGCTCAGC	600
CGGTCTACCGGCGTGCCAATGTGCCGGTGTTCTGGGGCGA	640
ACGGCGTTACGTCAGCCACTTCGAGCCGGTCGGTAGCGGT	680
GGGGCCTATCGCGGCCCCGAGCACGGCATGGTTCCGCTTCC	720
AGCTGATGGATGACCAAGACGCCCGCGCTACCTTCTACGG	760
CGCGCAGTGCAGTCTGTGCACCAGCCTGCTGTGGTCGGTC	800
GAGCGCCGCGGGCTTTAA	818

FIG. 17

2009 SEP 7 10:30:02

10 / 10



TGGCGGCCCTCTTGCCCTGTCGGTCTGTGCCACTGTGCGCGGGCTCCCCTGCGGATACACCGG MetAlaAlaSerCysLeuSerValCysAlaThrValAlaAlaProLeuProAspThrPro	
GAGCGCCATTTCGGGCTGTCGCCAAATTCGACCGCAGTGGCCCCCTACACACCAGCAGCCAGA GlyAlaProPheProAlaValAlaAsnPheAspArgSerGlyProTyrThrThrSerSerGln	126
GCGAGGGGCCGAGCTGTCGCATCTATCGGCCCGCCGACCTGGGTCAAGGGGGCGTGCATCATC SerGluGlyProSerCysArgIleTyrArgProArgAspLeuGlyGlnGlyGlyValArgHis	189
CGGTGATTCTCTGGGGCAATGGCACCGGTGCCGGCCGTCACCTATGCCGGCTTGCATATCGC ProValIleLeuTrpGlyAsnGlyThrGlyAlaGlyProSerThrTyrAlaGlyLeuLeuSer	252
ACTGGGCAAGCCACGGTTTCGTGGTGGCGGGCGGAAACCTCCAAATGCCGGTACCGGGCGGG HisTrpAlaSerHisGlyPheValValAlaAlaAlaGluThrSerAsnAlaGlyThrGlyArg	315
AAATGCTCGCCCTGCCCTGGACTATCTGGTACGTAGAACGACACACCCCTACGGCACCTATTCCG GluMetLeuAlaCysLeuAspTyrLeuValArgGluAsnAspThrProTyrGlyThrTyrSer	378
GCAAGCTCAATACCGGGCGAGTCGGCACTCTCTGGGCATTCCACAGGGTGGTGGCGCTCGATCA GlyLysLeuAsnThrGlyArgValGlyThrSerGlyHisSerGlnGlyGlyGlySerIle	441
TGGCGGGCAGGATACGAGGGTGCGTACCACGGCGCCGATCCAGCCCTACACCCCTCGGCCCTGG MetAlaGlyGlnAspThrArgValArgThrThrAlaProIleGlnProTyrThrLeuGlyLeu	504
GGCACGACAGCGCCCTCGCAGCGGGCGGCAGCAGGGGCCGATGTTCTCTGATGTCCGGTGGCGGTG GlyHisAspSerAlaSerGlnArgArgGlnGlnGlyProMetPheLeuMetSerGlyGlyGly	567
ACACCATCGCCCTTTCCCTACCTCAACGCTCAGCCGGTCTACCGGGGTGCCAATGTGCCGGTGT AspThrIleAlaPheProTyrLeuAsnAlaGlnProValTyrArgArgAlaAsnValProVal	630
TCTGGGGCGGAACGGCGTTACGTACGCCACTTCGAGCCGGTCCGGTAGCGGTGGGCCCTATCGCG PheTrpGlyGluArgArgTyrValSerHisPheGluProValGlySerGlyGlyAlaTyrArg	693
GCCCGAGCACGGCATGTTCCGCTTCCAGCTGATGGATGACCAAGACGCCCGCGCTACCTTCT GlyProSerThrAlaTrpPheArgPheGlnLeuMetAspAspGlnAspAlaArgAlaThrPhe	756
ACGGCGCGCAGTGCACTGTGTGCACCGCTGCTGTGGTGGTCTGAGCGCCCGCGGCTTAA TyrGlyAlaGlnCysSerLeuCysThrSerLeuLeuTrpSerValGluArgArgGlyLeu*	818

FIG.- 18